7 FIRE EMERGENCIES

7-1 SUMMARY

7-1.1 Scope

This procedure covers the response to a fire or smoke condition and is divided into two sections:

- o World Trade Center Fire Emergency Response
- o PATH Fire Emergency Response (incident occurring in the PATH area only)

7-1.2 Major Responsibilities

Operations Division : o Conducts evacuation, makes appropriate notifications, maintains a chronological record of events, and assists the Fire Safety Director and the Police Unit. Directs tenant evacuation near the scene and/or through the Public Address system. Arranges for emergency elevator service and key runs.

Police Unit : o Reports fire to NYCFD
o Responds to and controls fire until NYCFD arrives

NYC Fire Department : Responds to fire, extinguishes it, and determines the need for smoke purge. Decides when fire can be "secured."

Plant & Structures Division :

Coordinator Fire & Environmental Safety: Coordinates the entire response until NYC Fire Department arrival. Investigates and reports on all actual fires.

Mechanical Section: When requested, operates fire pumps and activates smoke purge. Secures sprinkler water shut-off valve at the request of the NYCFD or Police.

Electrical Section: When fire is secured, resets smoke detectors or alarm panels. Responds to electrical fires and fires near major electrical equipment. Secures such equipment (remotely when possible) at the request of the NYCFD or Police.

Tenant & Public Services Division : Responds to tenant inquiries.

Tenant Floor Warden : Reports a fire or smoke condition and performs an organized evacuation at the sound of an alarm or when instructed by WTC staff.

7-1.3 Notifications

Initial report of a fire or smoke condition is generally made one of three ways:

- o an alarm is activated on the Multiplex computer system at the Operations Control Center
- o a break-glass alarm sounds at the Operations Control Center
- o telephone call to the WTC Police Desk or Operations Control Center.

Notifications to be made for conditions in the World Trade Center are listed in Exhibit 7A. If the incident occurs in the PATH area, refer to PATH Fire Emergency Response section for appropriate notifications.

7-2 WORLD TRADE CENTER FIRE EMERGENCY RESPONSE

Note: There is no PA responsibility for fires at WTC #3 (Vista Hotel), WTC #6 (Customs House), and WTC #7. However, WTC Police will respond to assist in evacuations and crowd control. Fire alarms are transmitted to their proprietary central stations which then notifies the NYC Fire Department. The Fire Department responds directly to these buildings.

Note: At no time are unauthorized individuals to respond to the fire scene without the approval of the Coordinator of Fire Safety Programs (or designated representative) or the NYC Fire Department Chief. In a fire resulting from arson or suspected arson, the area is deemed a crime scene (Police jurisdiction).

7-2.1 OPERATIONS DIVISION

"7-7" Supervisor

1. Informs the WTC Police Desk of all reports of an odor of smoke, smoke, smoke detector activation, sprinkler alarm activation, or actual fire conditions received by radio, telephone calls, or by the multiplex computer system.
2. Transmits an all-page signaling a possible or confirmed (actual) "8-8", stating the corresponding building and floor number.
3. Performs duties as directed during the emergency.
4. Upon direction, arranges for emergency elevator service using the Executone Intercom System.
5. Makes all appropriate notifications listed in Exhibit 7A.
6. To reduce the anxiety of visitors at public facilities at the WTC, including WOW and the Observation Deck, notify the Restaurant and Deck Supervisors on duty as appropriate, so they are aware of facility emergency. This is necessary when many emergency vehicles respond to the building entrance.

"7-3" Supervisor

Note: In normal business hours, the "7-3" Supervisor will be under the direction of the Coordinator of Fire & Environmental Safety during an actual fire emergency.

1. Upon receipt of a fire alarm (signal "8-8"), responds to the Operations Control Center.
2. Monitors the Fire Alarm and the Public Address system.

OPERATIONS DIVISION - "7-3" Supervisor Continued

3. Maintains a chronological log noting:
   - o time all events occur - i.e. initial reporting of fire, arrival of NYC Fire Department.
   - o floors effected
   - o names of callers
   - o messages transmitted
   - o announcements to floors or zones
   - o change of announcements and each floor evacuated.
4. Establishes communication with the WTC Police Tour Commander via channel "W" radio and ascertain the severity of the situation. If an evacuation is necessary, determines the route of evacuation, ie. stairwells used. Determines the location of the closest stairwell from which a hose line could be stretched.
5. If necessary, assumes responsibility for directing and coordinating an evacuation of the fire floor and the floor above via public address announcements. Implements the buildings' (#1 and #2 WTC) smoke purge systems.
6. Upon arrival of the NYC Fire Department, acts as the liaison between NYC Fire Department and the Fire Brigade as well as other Operations Division staff members.
7. Authorizes the use of key runs.
8. Upon securing the fire, ensures that all alarm systems (break-glass box and NYC alarm box) are reset.
9. Restores alarm panel and public address panel to normal.
10. Prepares PA form 1624, Fire Report in ink.
11. Makes all necessary entries into the Fire Report Log.
12. Prepares and submits a handwritten report with the chronological log to Coord. Fire & Environmental Safety.

"7-4" Supervisor

General Procedure

1. Upon receipt of a fire alarm (signal "8-8"), responds to one floor below the affected floor by freight car or passenger car under Firemen's Service and awaits the arrival of the Fire Brigade with the fire cart.
   Elevator response cars are operated under the control of the Fireman's Service Key using the following guidelines:
   - o Zone 1 (both towers) - Cars 48 A&B (if not available, use Cars 5 A&B)
   - o Zone 2 (both towers) - Cars 17 A&B (if not available, use Cars 49 A&B)
   - o Zone 3 (both towers) - Cars 50 A&B (if not available, use Cars 6 A&B)
2. Upon arrival of the fire cart, dons a Scott Pak, responds to the affected floor via stairway and establishes communication with the Operations Control Center via break-glass box.
3. Should an evacuation becomes necessary, maintains control of the evacuees and assists in removing them from the floor.
4. Once evacuation is completed, leaves the floor and maintains control of the evacuees on the safe refuge floor.

OPERATIONS DIVISION - "7-4" Supervisor Continued

Note: At no time is the "7-4" Supervisor to respond to the affected floor without a Scott Pak. There is no PA responsibility for fires at WTC #3 (Vista Hotel), WTC #6 (Customs House), and WTC #7.

Fire Alarm in WTC #1
- WTC #1 - follows the above General Procedure.
- WTC #2 - responds to the Operations Control Center and assumes the duties of the "7-3" Supervisor until relieved. Then standby to assist as needed.
- WTC #4,#5-responds to the sky lobby below the affected floor and standby to assist as needed.

Fire Alarm in WTC #2
- WTC #1 - responds to the Operations Control Center and assumes the duties of the "7-3" Supervisor until relieved. Then stand by to assist as needed.
- WTC #2 - follows the above General Procedure.
- WTC #4,#5-responds to the sky lobby below the affected floor and standby to assist as needed.

Fire Alarm in WTC #4 or #5
- WTC #1 - responds to the respective street level lobby from the affected building and standby to assist.
- WTC #2 - responds to the Operations Control Center and assumes the duties of the "7-3" Supervisor until relieved. Then standby to assist as needed.
- WTC #4,#5-follows the above General Procedure.

Fire Alarm on Concourse or Subgrade areas
- WTC #1 - responds to the Operations Control Center and assumes the duties of the "7-3" Supervisor until relieved. Then standby to assist as needed.
- WTC #2 - responds to the truck dock area outside the Operations Control Center and standby to assist as needed.
- WTC #4,#5-responds to the truck dock area outside the Operations Control Center and standby to assist as needed.

"6-2" Supervisor (Security Guard Supervisor)

1. Upon receipt of a fire alarm (Signal "8-8"), responds to the Truck Dock area outside of the Operations Control Center and standby for assignment.

"6-4" Key Run (Security Guard)

1. Upon receipt of a fire alarm (Signal 8-8), responds to the truck dock area outside of the Operations Control Center and awaits the arrival of NYC Fire Department.
2. Upon arrival of the NYC Fire Department, escorts to the elevator only, returns to the Operations Control Center area and standby.

Security Guard Contractor Supervisor

1. Responds to Contract Guard Command Post and awaits further instructions.

7-2.2 POLICE UNIT

Note: The Police Fire Brigade consists of the Tour Commander and assigned Police Officers.

Note: There is no PA responsibility for fires at WTC #3 (Vista Hotel) and WTC #6 (Custom House). As for WTC #7 (Silverstein Building), the Police Unit will only be notified of an actual "8-8". WTC Police will not be involved in fire fighting, but will assist in evacuations, if requested.

Tour Commander

1. Cancels all relief periods.
2. Organizes and leads the Fire Brigade team of Police personnel.
3. Directs other Officers to rendevous at a specific locations with Fire Response Carts. Refer to Exhibit 7C for locations of Fire Response Carts. Directs personnel to use elevators using the control of the Fireman's Service Key under the following guidelines:
   - o Zone 1 (both towers) - Cars 48 A&B (if not available, use Cars 5 A&B)
   - o Zone 2 (both towers) - Cars 17 A&B (if not available, use Cars 49 A&B)
   - o Zone 3 (both towers) - Cars 50 A&B (if not available, use Cars 6 A&B)
4. Ensures that Officers in the affected zone respond to the freight car elevator lobby (utilized for the response) to meet with the Fire Brigade.
5. If fire condition occurs in WTC #3 (Vista Hotel) or WTC #7, dispatches one Officer to the Fire Command Station in the lobby (Vista Hotel) to relay information to the WTC Police Desk.
6. Directs and insures that members of the team don the equipment provided in the fire carts. This includes bunker coats, boots, Scott Paks and gloves.
7. Responds to the affected floor with one police officer and conducts a search. The remaining officer responds to the nearest standpipe with (3 lengths) of hose and nozzle, conducts the hose, and affects a charge line if necessary.

POLICE UNIT - Tour Commander Continued

8. Directs all physical efforts to extinguish or control the fire.
9. Upon the arrival of NYC Fire Department at the scene, relinquishes fire control duties to the ranking fire officer and coordinates his effort with those of the NYC Fire Department in fire control and/or evacuation of people.
10. If evacuation is necessary, reports, with the Coordinator of Fire & Environmental Safety, to the Operations Control Center to assist in an orderly evacuation of floors.

WTC Police Desk Officer

1. Upon report of a fire or smoke condition, transmits a possible or confirmed (actual) "8-8" (Fire Alarm) on radio phones and paging channels.
2. Makes all appropriate notifications listed in Exhibit 7A.
3. Activates the Fire Alarm Control Annunciator. Advises Fire Dispatcher of the type of alarm received (i.e. smoke detector, sprinkler alarm) and the affected building and floor number.

Note: As a back up to the Fire Alarm Control Annunciator, a direct land line to the Fire Dispatcher can be utilized.

3. Transmits on channel "X" (to "7-3" Supervisor) and channel "Y" a possible or confirmed "8-8" indicating the affected building and floor number.
4. Makes all appropriate notifications listed in Exhibit 7A.
5. Maintains a chronological log.

Note: Four radios, channel W, are maintained at the Police Desk for the exclusive use of the NYC Fire Department.

Police Commanding Officer and Lieutenant

1. Supervise the entire Police procedure at the Police Desk.

Police Officers

Note: Elevator response cars are to be operated under the control of the Fireman's Service Key using the following guidelines:
- o Zone 1 (both towers) - Cars 48 A&B (or Cars 5 A&B)
- o Zone 2 (both towers) - Cars 17 A&B (or Cars 49 A&B)
- o Zone 3 (both towers) - Cars 50 A&B (or Cars 6 A&B)

POLICE UNIT - Police Officers Continued

Post 1, 2, 4, or 5 (WTC #1,2,4,or 5)

The officer responds to one floor below the fire floor with a Fire Response Cart from that zone (Refer to Exhibit 7C for location of carts) and:

1. Rendevous with the tour commander at a designated location.
2. Suit up in Scott Air-Pak and bunker equipment.
3. Walk up stairwell to the fire floor with the Tour Commander.
4. At the direction of the Tour Commander, enter the fire area and extinguish or control fire.

If the fire alarm is in another building, then the person will respond to the affected area one floor below fire floor and:

1. Suit up in Scott Air-Pak and bunker equipment.
2. Remove and discard existing fire hose from the nearest stairwell to the affected quadrant. Replace with fire hose (3 lengths) and nozzle from fire cart.

Post 9 (Subgrade level)

The officer responds to the sub-grade fire area with Fire Response Cart from Emergency Supply Room or responds to sub-grade fire area with Emergency Response Vehicle. The Fire Response Unit used is determined by the Tour Commander. If the fire alarm is in not in the sub-grade, Post 9 responds to the Police Desk and stands by with the Sub-grade Fire Cart and responds to the fire area at the request of the Tour Commander.

Post 10 and 11 (Relief Post)

These posts assume the responsibility of the posts being relieved.

7-2.3 NYC FIRE DEPARTMENT

General Procedure

1. Responds to fire, extinguishes it, and determines a need for smoke purge.
2. Decides when fire can be "secured".
3. Equip electrician with Scott Air Packs for electrician to demonstrare that power is de-energized.

WTC #1 & #2 (Including Subgrade)

1. Primary Response - one Engine Company and one Ladder Company respond to B-1 Truck Dock at the Operations Control Center.
2. Secondary Response - one Engine Company and one Ladder Company respond to the West Street side of WTC #1 (VIP Drive).

WTC #5 (Including PATH terminal)

1. Responds to the Vesey Street entrance of the building.

WTC #4

1. Responds to the Church and Liberty Street entrance of the building.

7-2.4 PLANT & STRUCTURES DIVISION

COORDINATOR OF FIRE & ENVIRONMENTAL SAFETY OFFICE

Note: During normal business hours, the Assistant Coordinator of Fire & Environmental Safety will provide assistance or assume the Coordinator's responsibilities in his/her absence.

Note: During off-hours, the Fire & Environmental Safety Deputy ("7-3" Supervisor) will assume the Coordinator of Fire & Environmental Safety responsibilities.

1. Upon receipt of an actual "8-8", responds to the Operations Control Center.
2. Assumes responsibility for coordinating an evacuation and Public Address announcements.
3. Ensures that the NYC Fire Department was notified.
4. Using the Executone Intercom System, directs certain elevators to the B-1 Level for emergency use by the Police or NYCFD.
5. Directs the "7-3" Supervisor to:

   - o Monitor Fire Alarm Console and record all public address announcements.
   - o Maintain a chronological log.
   - o Make all necessary tenant notifications as indicated in the "Fire Safety Directors Manual."
   - o Restore all systems once the fire is secured and fill out appropriate fire incident reports.

6. Provides liaison with the Fire Department's Chief Officer.
7. Directs and coordinates evacuation procedures as described in the Fire Safety Plan utilizing Floor Wardens, Police personnel, and Security Guards.
8. Investigates and reports on all actual fires.

MECHANICAL SECTION

Mechanical Contractor Supervisor

1. Upon receipt of a fire alarm (signal "8-8"), dispatches staff to operate the fire pumps in the affected building and stand by for directions.

   Note: For "8-8" conditions in PATH Terminal, a craftsman is dispatched to operate the hot-line and operates selected fans at the PATH Motor Control Center (242 Level MER - WTC #1).

   Note: Wooden pegs, hammers, bolt cutters and rain gear are on every fire cart in the complex. Their purpose is for use in temporarily stemming the flow of water from an activated sprinkler head, thereby minimizing damage. The fire cart is required to remain until the action of securing the water flow is completed.

PLANT & STRUCTURES DIVISION - Mechanical Contract Supervisor
Continued

2. As requested, directs personnel to activate the smoke purge fans.
3. Directs staff to secure sprinkler water shut-off valve at the request of the NYCFD or Police Unit.

PA Mechanical Supervisor

1. Upon receipt of an actual "8-8", responds to the truck dock area outside the Operations Control Center to assist if necessary.

Chief Maintenance Supervisor (Mechanical)

1. In response to a Sprinkler Flow Alarm, ensures that one staff member is dispatched to respond to one floor below the affected floor on all sprinkler alarms. This individual stands by and when advised by the Police Tour Commander that the fire is secured, stops the flow of water from the activated heads by securing the valves subdividing the area.
2. Ensure that contract personnel operate appropriate fire pumps and activate smoke purge fans.

ELECTRICAL SECTION

Electrical Contract Supervisor

1. Upon receipt of a signal "8-8," will dispatch a staff member to respond to one floor below the affected floor and stand by. The individual is called upon to lend assistance should the emergency involve the electrical closets or fixtures.
2. Ensure that smoke detectors or alarm panels are reset and cleared once the situation is established as a non-emergency or at a point in time when the emergency is secured.
3. Responds to electrical fires and fires near major electrical equipment. Secures such equipment (remotely) at the request of the NYCFD or Police Unit. Demonstrates to NYCFD that power is de-energized.

Chief Maintenance Supervisor (Electrical)

1. In response to fires threatening normal electrical service, ensures that electrical contract staff are dispatched and are standing by to secure power as requested.

7-2.5 TENANT SUPPORT & PROJECT MANAGEMENT

1. The Tenant Support Division notifies tenants via automated or manual means. During off-hours, the Operations Control Center initiates notifications until the Tenant Support Division staff either arrive at WTC or acknowledge that they will perform such notifications from off-site.

2. The specifi wording of such notifiations will be coordinated with General Manager of Physical Facilities.

3. The Tenant Support Division distributes tenant bulletins as appropriate.

4. All tenant notifications are logged.

5. Maintains an up-to-date tenant losting b building and floor at the Operations Control Center, Situation Room, and Emergency Tenant Communications Office.

7-2.6 TENANT FLOOR WARDEN

Note: Report any fire or smoke condition through break-glass alarm and/or telephone to the Police Desk.

Note: Each floor of a building shall be under the direction of a designated Floor Warden for the evacuation of occupants in the event of a fire. This individual shall be assisted in duties by Deputy Floor Wardens. Each Floor Warden and Deputy Floor Warden are familiar with the Fire Safety Plan, the location of exits and the location and operation of any available fire alarm system.

1. Ensures that an alarm has been transmitted.
2. Ensures that all occupants are notified of the fire and that they proceed immediately to execute the Fire Safety Plan.

TENANT FLOOR WARDEN-Continued

3. In the event of fire, or fire alarm, ascertains location of the fire, and coordinates the evacuation of the floor in accordance with directions received and the following guidelines:

   - o The most critical evacuations must occur on the fire floor and the floor directly above.
   - o Evacuation from the other floors shall be instituted when instructions from the Fire Command Station (Operations Control Center) or conditions indicate such action.
   - o Evacuation should be via uncontaminated stairs being sure to avoid stairs being used by the Fire Department. If this is not possible, the Fire Department personnel should be made aware before a door to the fire floor is opened.
   - o Evacuation to two or more levels below the fire door is generally adequate.

   - o In the event that stairways serving the floor and/or floors above are usable due to contamination or cut off by fire and/or smoke, or that several floors above fire involving large numbers of occupants must be evacuated, consideration may be given to using elevators in accordance with the following:

     - If the elevator servicing a floor also services the fire floor, it should not be used. However, elevators may be used if there is more than one bank of elevators, and the Warden is informed from the Fire Command Station that one bank is unaffected by the fire.
     - If elevators do not service the fire floor and their shafts have no openings on the fire floor, they may be used, unless otherwise directed.
     - Elevators operated by trained building personnel or firemen may also be used.
     - In the absence of a serviceable elevator the Floor Warden shall select the safest stairway to use for evacuation on the basis of the location of the fire and any information received from the Fire Command Station. The Floor Warden shall check the environment in the stair prior to entry for evacuation. If it is affected by smoke, an alternate stair shall be selected, and the Fire Command Station notified.

3. Ensures that the Fire Command Station (Operations Control Center) is informed of the means being employed for evacuation by the occupants of the floor.
4. Floor Wardens on floor above the fire shall, after executing the Fire Safety Plan, notify the Fire Command Station of the means of egress being used for evacuation and any other particulars.
5. Informs Fire Command Station (Operations Control Center) of the location of evacuees.

7-3 PATH FIRE EMERGENCY RESPONSE

7-3.1 POLICE UNIT

Note: The WTC Police Unit responds to all PATH fire alarms.

WTC Police Desk Officer

1. Notifies the NYC Fire Department, Coordinator of Fire & Environmental Safety, Mechanical Contract Supervisor and Chief Maintenance Supervisor (Mechanical).
2. Advises the PATH Police of the alarm and location if known.

7-3.2 OPERATIONS DIVISION

"7-7" Supervisor

1. Upon receipt of an alarm or report of a fire or smoke condition in the PATH area, immediately notifies the WTC Police Desk Officer.
2. Advises the PATH Train Master of all alarms.

7-3.3 PLANT & STRUCTURES DIVISION

COORDINATOR OF FIRE & ENVIRONMENTAL SAFETY OFFICE

1. Upon arrival at the Operations Control Center, confirms that the Mechanical Contractor Supervisor has responded to the HVAC fan control room and has made contact with the PATH Power Director via the direct telephone line.
2. Makes contacts with the appropriate "7-4" Supervisor as to the need for opening the World Trade Center emergency exit doors at the north end of the PATH mezzanine.

MECHANICAL SECTION

Mechanical Contractor Supervisor

1. Responds to the HVAC Fan Control Room and makes contact with the PATH Power Director utilizing the direct telephone line.
2. Directs contract personnel to sequence fans in conjunction with guidance from the Train Master.

7-3.4 PATH

Power Director's Office

1. Instructs the WTC Mechanical Contractor Supervisor to activate a specific ventilation mode based on the fire location zone indicated on Exhibit 7B, the HVAC System Chart. The fire location zone is the area identified by the PATH Train Master based on the notification of a fire and/or smoke condition.
2. Notifies PATH personnel and coordinates system power appropriately as directed by the PATH Train Master.
3. Dispatches electrical personnel to reset the fans in Substation #3 upon completion of the incident.

Train Master

1. Notifies PATH personnel of fire and/or smoke condition.
2. Guides the WTC Mechanical Contractor Supervisor in sequencing fans.
3. Informs the PATH Power Director of the specific fire location zone based on the notification of the fire and/or smoke condition.
4. In the event of a major incident, designates a PATH employee as the on-scene coordinator. This employee will be responsible for establishing a Communications Command Post to coordinate the response and to provide an open channel of communications between the NYC Fire Department, Emergency Medical Service, WTC Police, WTC Operations personnel, PATH Police, and the Train Master.
5. Advises the WTC Operations Control Center of alternate service strategies, if applicable.

EXHIBIT 7A
NOTIFICATIONS

ALL RADIO TRANSMISSIONS ARE TO REFER A "FIRE CONDITION" AS A "Possible 8-8" OR "Actual 8-8," as appropriate.

Refer to the APPENDIX A for names and numbers.

Individuals or their alternates must be contacted at home if the incident occurs during off-hours.

FROM	PRIORITY	TO
WTC Police Desk Officer	1st Priority (radio)	NYC Fire Department (by Hotline)
		Tour Commander
		"7-3" Supervisor
		"7-7" Supervisor
		Coord. of Fire & Env. Safety (reg hrs only)
		Police Commanding Officer(reg hrs only)
	2nd Priority (radio or phone)	Police Lieutenant (reg hrs only)
		Central Police Desk
"7-7" Supervisor	1st Priority	WTC Police Desk
	2nd Priority	Coord. of Fire & Env. Safety (reg hrs only)
		Mechanical Contr. Supv.
		Electrical Contr. Supv.
	3rd Priority*	Chief Mtnc Supv (Mechanical)
		Chief Mtnc Supv (Electrical)
		Coord. of Fire & Env. Safety
		Mgr, Operations
		Mgr, Plant & Structures
		General Mgr, Tenant Support & Project Management
		Mgr, Tenant Support Division
		General Mgr, Physical Facilities
Coordinator of Fire & Environmental Safety	1st Priority	Public Affairs (reg hrs only)
		Risk Management (reg hrs only)
		Engineering Audit Div. (reg hrs only)
		General Mgr, Physical Facilities (off hrs)

* For notifications purposes only, fires with the following conditions are considered 3rd priority:

- o sprinkler head water release
- o use of hose line to extinguish fire
- o electrical switchgear fire
- o smoke purge utilized
- o suspected arson

EMERGENCY H.V.A.C. CHART

	PATH MEZZ A.C. SYSTEM			PATH OFFICES A.C. SYSTEM			PATH PLAT-FORM	PATH S. END TRACK	PATH EXHAUST FANS				PROJ FAN	
									SUBSTATION 3			SOUTH	N. STR.	S. STR
FIRE LOCATION	ACS-S5-S6	ACR-S5-S6	100% FRESH AIR	ACS-S5-S7	ACR-S5-S7	100% FRESH AIR	VS-S5-S11	VS-S5-S4	TRACK SIDE DAMPER	E-S5-16	E-S5-17	E-S5-18	E-S3-S2	E-S2-S6
WEST STREET	STOP	STOP		STOP	STOP		STOP	STOP	CLOSED			STOP		
PLATFORM			START			START	STOP	STOP	OPEN	START	START	START		
TRACK NORTH OF TERMINAL			START			START	START	START	OPEN	START	START	STOP		
TRACK SOUTH OF TERMINAL			START			START	STOP	START	OPEN	START	START	START		
MEZZANINE OR COMMUTERS CAFE	STOP	STOP				START	START	START	CLOSED			STOP		
MEZZANINE OFFICE OR COFFEE SHOP/ TRADE INN			START	STOP	STOP		START	START	CLOSED			STOP		
UNKNOWN			START			START	START	STOP	CLOSED			STOP		
FAN LABEL (on Sub 3 panel)	A	B	C	D	E	F	G	H	I	I	J	K	L	M
SEQUENCE TO ESTABLISH NORMAL FAN OPERATION	3 START	2 START	1 STOP	6 START	5 START	4 STOP	7 START	8 START	9 CLOSED	10 STOP	11 START	12 STOP	13 STOP	14 STOP

Notes:
- Disregard blank spaces.
- Normally either Fan I or J is running and should be left that way.
- Authorized instructions supersede these codes.

EXHIBIT 7C
FIRE RESPONSE CARTS

LOCATION	PURPOSE
WTC #1 & 2	
Lobby Level Emergency Rm.. adjacent Freight elevator 48 car	For use on fires in Zone 1
44th Floor Skylobby Emergency Room - at main corridor intersection	For use on fires in Zone 2
78th floor Skylobby at main corridor intersection	For use on fires in Zone 3
WTC #4	
Lobby Level adjacent to freight elevators FE3 - FE4	For use on fires in WTC #4 and Concourse stores
WTC #5	
Lobby Level Emergency Room West wall adjacent to elevator lobby	For use on fires in WTC #5
Subgrade	
Emergency Supply Room East/West corridor B-1 Level near Police Desk	For use on subgrade fires in WTC #1 & 2, parking garages and truck dock
Subgrade & Outdoors	
Response Vehicle truck dock vehicle near Police Desk	For use on subgrade fires and outdoor fires throughout facility

7 FIRE EMERGENCIES

7-1 SUMMARY

7-1.1 Scope

This procedure covers the response to a fire or smoke condition and is divided into two sections:

- o World Trade Center Fire Emergency Response
- o PATH Fire Emergency Response (incident occurring in the PATH area only)

7-1.2 Major Responsibilities

Operations Division : o Conducts evacuation, makes appropriate notifications, maintains a chronological record of events, and assists the Fire Safety Director and the Police Unit. Directs tenant evacuation near the scene and/or through the Public Address system. Arranges for emergency elevator service and key runs.

Police Unit : o Reports fire to NYCFD
o Responds to and controls fire until NYCFD arrives

NYC Fire Department : Responds to fire, extinguishes it, and determines the need for smoke purge. Decides when fire can be "secured."

Plant & Structures Division :

Coordinator Fire & Environmental Safety: Coordinates the entire response until NYC Fire Department arrival. Investigates and reports on all actual fires.

Mechanical Section: When requested, operates fire pumps and activates smoke purge. Secures sprinkler water shut-off valve at the request of the NYCFD or Police.

Electrical Section: When fire is secured, resets smoke detectors or alarm panels. Responds to electrical fires and fires near major electrical equipment. Secures such equipment (remotely when possible) at the request of the NYCFD or Police.

Tenant & Public Services Division : Responds to tenant inquiries.

Tenant Floor Warden : Reports a fire or smoke condition and performs an organized evacuation at the sound of an alarm or when instructed by WTC staff.

7-1.3 Notifications

Initial report of a fire or smoke condition is generally made one of three ways:

- o an alarm is activated on the Multiplex computer system at the Operations Control Center
- o a break-glass alarm sounds at the Operations Control Center
- o telephone call to the WTC Police Desk or Operations Control Center.

Notifications to be made for conditions in the World Trade Center are listed in **Exhibit 7A.** If the incident occurs in the PATH area, refer to **PATH Fire Emergency Response** section for appropriate notifications.

7-2 WORLD TRADE CENTER FIRE EMERGENCY RESPONSE

Note: There is no PA responsibility for fires at WTC #3 (Vista Hotel), WTC #6 (Customs House), and WTC #7. However, WTC Police will respond to assist in evacuations and crowd control. Fire alarms are transmitted to their proprietary central stations which then notifies the NYC Fire Department. The Fire Department responds directly to these buildings.

Note: At no time are unauthorized individuals to respond to the fire scene without the approval of the Coordinator of Fire Safety Programs (or designated representative) or the NYC Fire Department Chief. In a fire resulting from arson or suspected arson, the area is deemed a crime scene (Police jurisdiction).

7-2.1 OPERATIONS DIVISION

"7-7" Supervisor

1. Informs the WTC Police Desk of all reports of an odor of smoke, smoke, smoke detector activation, sprinkler alarm activation, or actual fire conditions received by radio, telephone calls, or by the multiplex computer system.
2. Transmits an all-page signaling a possible or confirmed (actual) "8-8", stating the corresponding building and floor number.
3. Performs duties as directed during the emergency.
4. Upon direction, arranges for emergency elevator service using the Executone Intercom System.
5. Makes all appropriate notifications listed in Exhibit 7A.
6. To reduce the anxiety of visitors at public facilities at the WTC, including WOW and the Observation Deck, notify the Restaurant and Deck Supervisors on duty as appropriate, so they are aware of facility emergency. This is necessary when many emergency vehicles respond to the building entrance.

"7-3" Supervisor

Note: In normal business hours, the "7-3" Supervisor will be under the direction of the Coordinator of Fire & Environmental Safety during an actual fire emergency.

1. Upon receipt of a fire alarm (signal "8-8"), responds to the Operations Control Center.
2. Monitors the Fire Alarm and the Public Address system.

OPERATIONS DIVISION - "7-3" Supervisor Continued

3. Maintains a chronological log noting:
   - o time all events occur - i.e. initial reporting of fire, arrival of NYC Fire Department.
   - o floors effected
   - o names of callers
   - o messages transmitted
   - o announcements to floors or zones
   - o change of announcements and each floor evacuated.
4. Establishes communication with the WTC Police Tour Commander via channel "W" radio and ascertain the severity of the situation. If an evacuation is necessary, determines the route of evacuation, ie. stairwells used. Determines the location of the closest stairwell from which a hose line could be stretched.
5. If necessary, assumes responsibility for directing and coordinating an evacuation of the fire floor and the floor above via public address announcements. Implements the buildings' (#1 and #2 WTC) smoke purge systems.
6. Upon arrival of the NYC Fire Department, acts as the liaison between NYC Fire Department and the Fire Brigade as well as other Operations Division staff members.
7. Authorizes the use of key runs.
8. Upon securing the fire, ensures that all alarm systems (break-glass box and NYC alarm box) are reset.
9. Restores alarm panel and public address panel to normal.
10. Prepares PA form 1624, Fire Report in ink.
11. Makes all necessary entries into the Fire Report Log.
12. Prepares and submits a handwritten report with the chronological log to Coord. Fire & Environmental Safety.

"7-4" Supervisor

General Procedure

1. Upon receipt of a fire alarm (signal "8-8"), responds to one floor below the affected floor by freight car or passenger car under Firemen's Service and awaits the arrival of the Fire Brigade with the fire cart.
   Elevator response cars are operated under the control of the Fireman's Service Key using the following guidelines:
   - o Zone 1 (both towers) - Cars 48 A&B (if not available, use Cars 5 A&B)
   - o Zone 2 (both towers) - Cars 17 A&B (if not available, use Cars 49 A&B)
   - o Zone 3 (both towers) - Cars 50 A&B (if not available, use Cars 6 A&B)
2. Upon arrival of the fire cart, dons a Scott Pak, responds to the affected floor via stairway and establishes communication with the Operations Control Center via break-glass box.
3. Should an evacuation becomes necessary, maintains control of the evacuees and assists in removing them from the floor.
4. Once evacuation is completed, leaves the floor and maintains control of the evacuees on the safe refuge floor.

OPERATIONS DIVISION - "7-4" Supervisor Continued

Note: At no time is the "7-4" Supervisor to respond to the affected floor without a Scott Pak. There is no PA responsibility for fires at WTC #3 (Vista Hotel), WTC #6 (Customs House), and WTC #7.

Fire Alarm in WTC #1
- WTC #1 - follows the above General Procedure.
- WTC #2 - responds to the Operations Control Center and assumes the duties of the "7-3" Supervisor until relieved. Then standby to assist as needed.
- WTC #4,#5-responds to the sky lobby below the affected floor and standby to assist as needed.

Fire Alarm in WTC #2
- WTC #1 - responds to the Operations Control Center and assumes the duties of the "7-3" Supervisor until relieved. Then stand by to assist as needed.
- WTC #2 - follows the above General Procedure.
- WTC #4,#5-responds to the sky lobby below the affected floor and standby to assist as needed.

Fire Alarm in WTC #4 or #5
- WTC #1 - responds to the respective street level lobby from the affected building and standby to assist.
- WTC #2 - responds to the Operations Control Center and assumes the duties of the "7-3" Supervisor until relieved. Then standby to assist as needed.
- WTC #4,#5-follows the above General Procedure.

Fire Alarm on Concourse or Subgrade areas
- WTC #1 - responds to the Operations Control Center and assumes the duties of the "7-3" Supervisor until relieved. Then standby to assist as needed.
- WTC #2 - responds to the truck dock area outside the Operations Control Center and standby to assist as needed.
- WTC #4,#5-responds to the truck dock area outside the Operations Control Center and standby to assist as needed.

"6-2" Supervisor (Security Guard Supervisor)

1. Upon receipt of a fire alarm (Signal "8-8"), responds to the Truck Dock area outside of the Operations Control Center and standby for assignment.

"6-4" Key Run (Security Guard)

1. Upon receipt of a fire alarm (Signal 8-8), responds to the truck dock area outside of the Operations Control Center and awaits the arrival of NYC Fire Department.
2. Upon arrival of the NYC Fire Department, escorts to the elevator only, returns to the Operations Control Center area and standby.

Security Guard Contractor Supervisor

1. Responds to Contract Guard Command Post and awaits further instructions.

7-2.2 POLICE UNIT

Note: The Police Fire Brigade consists of the Tour Commander and assigned Police Officers.

Note: There is no PA responsibility for fires at WTC #3 (Vista Hotel) and WTC #6 (Custom House). As for WTC #7 (Silverstein Building), the Police Unit will only be notified of an actual "8-8". WTC Police will not be involved in fire fighting, but will assist in evacuations, if requested.

Tour Commander

1. Cancels all relief periods.
2. Organizes and leads the Fire Brigade team of Police personnel.
3. Directs other Officers to rendevous at a specific locations with Fire Response Carts. Refer to Exhibit 7C for locations of Fire Response Carts. Directs personnel to use elevators using the control of the Fireman's Service Key under the following guidelines:
    - o Zone 1 (both towers) - Cars 48 A&B (if not available, use Cars 5 A&B)
    - o Zone 2 (both towers) - Cars 17 A&B (if not available, use Cars 49 A&B)
    - o Zone 3 (both towers) - Cars 50 A&B (if not available, use Cars 6 A&B)
4. Ensures that Officers in the affected zone respond to the freight car elevator lobby (utilized for the response) to meet with the Fire Brigade.
5. If fire condition occurs in WTC #3 (Vista Hotel) or WTC #7, dispatches one Officer to the Fire Command Station in the lobby (Vista Hotel) to relay information to the WTC Police Desk.
6. Directs and insures that members of the team don the equipment provided in the fire carts. This includes bunker coats, boots, Scott Paks and gloves.
7. Responds to the affected floor with one police officer and conducts a search. The remaining officer responds to the nearest standpipe with (3 lengths) of hose and nozzle, conducts the hose, and affects a charge line if necessary.

POLICE UNIT - Tour Commander Continued

8. Directs all physical efforts to extinguish or control the fire.
9. Upon the arrival of NYC Fire Department at the scene, relinquishes fire control duties to the ranking fire officer and coordinates his effort with those of the NYC Fire Department in fire control and/or evacuation of people.
10. If evacuation is necessary, reports, with the Coordinator of Fire & Environmental Safety, to the Operations Control Center to assist in an orderly evacuation of floors.

WTC Police Desk Officer

1. Upon report of a fire or smoke condition, transmits a possible or confirmed (actual) "8-8" (Fire Alarm) on radio phones and paging channels.
2. Makes all appropriate notifications listed in **Exhibit 7A.**
3. Activates the Fire Alarm Control Annunciator. Advises Fire Dispatcher of the type of alarm received (i.e. smoke detector, sprinkler alarm) and the affected building and floor number.

Note: As a back up to the Fire Alarm Control Annunciator, a direct land line to the Fire Dispatcher can be utilized.

3. Transmits on channel "X" (to "7-3" Supervisor) and channel "Y" a possible or confirmed "8-8" indicating the affected building and floor number.
4. Makes all appropriate notifications listed in **Exhibit 7A.**
5. Maintains a chronological log.

Note: Four radios, channel W, are maintained at the Police Desk for the exclusive use of the NYC Fire Department.

Police Commanding Officer and Lieutenant

1. Supervise the entire Police procedure at the Police Desk.

Police Officers

Note: Elevator response cars are to be operated under the control of the Fireman's Service Key using the following guidelines:

- o Zone 1 (both towers) - Cars 48 A&B (or Cars 5 A&B)
- o Zone 2 (both towers) - Cars 17 A&B (or Cars 49 A&B)
- o Zone 3 (both towers) - Cars 50 A&B (or Cars 6 A&B)

POLICE UNIT - Police Officers Continued

Post 1, 2, 4, or 5 (WTC #1,2,4,or 5)

The officer responds to one floor below the fire floor with a Fire Response Cart from that zone (Refer to Exhibit 7C for location of carts) and:

1. Rendevous with the tour commander at a designated location.
2. Suit up in Scott Air-Pak and bunker equipment.
3. Walk up stairwell to the fire floor with the Tour Commander.
4. At the direction of the Tour Commander, enter the fire area and extinguish or control fire.

If the fire alarm is in another building, then the person will respond to the affected area one floor below fire floor and:

1. Suit up in Scott Air-Pak and bunker equipment.
2. Remove and discard existing fire hose from the nearest stairwell to the affected quadrant. Replace with fire hose (3 lengths) and nozzle from fire cart.

Post 9 (Subgrade level)

The officer responds to the sub-grade fire area with Fire Response Cart from Emergency Supply Room or responds to sub-grade fire area with Emergency Response Vehicle. The Fire Response Unit used is determined by the Tour Commander. If the fire alarm is in not in the sub-grade, Post 9 responds to the Police Desk and stands by with the Sub-grade Fire Cart and responds to the fire area at the request of the Tour Commander.

Post 10 and 11 (Relief Post)

These posts assume the responsibility of the posts being relieved.

7-2.3 NYC FIRE DEPARTMENT

General Procedure

1. Responds to fire, extinguishes it, and determines a need for smoke purge.
2. Decides when fire can be "secured".
3. Equip electrician with Scott Air Packs for electrician to demonstrare that power is de-energized.

WTC #1 & #2 (Including Subgrade)

1. Primary Response - one Engine Company and one Ladder Company respond to B-1 Truck Dock at the Operations Control Center.
2. Secondary Response - one Engine Company and one Ladder Company respond to the West Street side of WTC #1 (VIP Drive).

WTC #5 (Including PATH terminal)

1. Responds to the Vesey Street entrance of the building.

WTC #4

1. Responds to the Church and Liberty Street entrance of the building.

7-2.4 PLANT & STRUCTURES DIVISION

COORDINATOR OF FIRE & ENVIRONMENTAL SAFETY OFFICE

Note: During normal business hours, the Assistant Coordinator of Fire & Environmental Safety will provide assistance or assume the Coordinator's responsibilities in his/her absence.

Note: During off-hours, the Fire & Environmental Safety Deputy ("7-3" Supervisor) will assume the Coordinator of Fire & Environmental Safety responsibilities.

1. Upon receipt of an actual "8-8", responds to the Operations Control Center.
2. Assumes responsibility for coordinating an evacuation and Public Address announcements.
3. Ensures that the NYC Fire Department was notified.
4. Using the Executone Intercom System, directs certain elevators to the B-1 Level for emergency use by the Police or NYCFD.
5. Directs the "7-3" Supervisor to:

   - o Monitor Fire Alarm Console and record all public address announcements.
   - o Maintain a chronological log.
   - o Make all necessary tenant notifications as indicated in the "Fire Safety Directors Manual."
   - o Restore all systems once the fire is secured and fill out appropriate fire incident reports.

6. Provides liaison with the Fire Department's Chief Officer.
7. Directs and coordinates evacuation procedures as described in the Fire Safety Plan utilizing Floor Wardens, Police personnel, and Security Guards.
8. Investigates and reports on all actual fires.

MECHANICAL SECTION

Mechanical Contractor Supervisor

1. Upon receipt of a fire alarm (signal "8-8"), dispatches staff to operate the fire pumps in the affected building and stand by for directions.

   Note: For "8-8" conditions in PATH Terminal, a craftsman is dispatched to operate the hot-line and operates selected fans at the PATH Motor Control Center (242 Level MER - WTC #1).

   Note: Wooden pegs, hammers, bolt cutters and rain gear are on every fire cart in the complex. Their purpose is for use in temporarily stemming the flow of water from an activated sprinkler head, thereby minimizing damage. The fire cart is required to remain until the action of securing the water flow is completed.

PLANT & STRUCTURES DIVISION - Mechanical Contract Supervisor
Continued

2. As requested, directs personnel to activate the smoke purge fans.
3. Directs staff to secure sprinkler water shut-off valve at the request of the NYCFD or Police Unit.

PA Mechanical Supervisor

1. Upon receipt of an actual "8-8", responds to the truck dock area outside the Operations Control Center to assist if necessary.

Chief Maintenance Supervisor (Mechanical)

1. In response to a Sprinkler Flow Alarm, ensures that one staff member is dispatched to respond to one floor below the affected floor on all sprinkler alarms. This individual stands by and when advised by the Police Tour Commander that the fire is secured, stops the flow of water from the activated heads by securing the valves subdividing the area.
2. Ensure that contract personnel operate appropriate fire pumps and activate smoke purge fans.

ELECTRICAL SECTION

Electrical Contract Supervisor

1. Upon receipt of a signal "8-8," will dispatch a staff member to respond to one floor below the affected floor and stand by. The individual is called upon to lend assistance should the emergency involve the electrical closets or fixtures.
2. Ensure that smoke detectors or alarm panels are reset and cleared once the situation is established as a non-emergency or at a point in time when the emergency is secured.
3. Responds to electrical fires and fires near major electrical equipment. Secures such equipment (remotely) at the request of the NYCFD or Police Unit. Demonstrates to NYCFD that power is de-energized.

Chief Maintenance Supervisor (Electrical)

1. In response to fires threatening normal electrical service, ensures that electrical contract staff are dispatched and are standing by to secure power as requested.

7-2.5 TENANT SUPPORT & PROJECT MANAGEMENT

1. The Tenant Support Division notifies tenants via automated or manual means. During off-hours, the Operations Control Center initiates notifications until the Tenant Support Division staff either arrive at WTC or acknowledge that they will perform such notifications from off-site.

2. The specifi wording of such notifiations will be coordinated with General Manager of Physical Facilities.

3. The Tenant Support Division distributes tenant bulletins as appropriate.

4. All tenant notifications are logged.

5. Maintains an up-to-date tenant losting b building and floor at the Operations Control Center, Situation Room, and Emergency Tenant Communications Office.

7-2.6 TENANT FLOOR WARDEN

Note: Report any fire or smoke condition through break-glass alarm and/or telephone to the Police Desk.

Note: Each floor of a building shall be under the direction of a designated Floor Warden for the evacuation of occupants in the event of a fire. This individual shall be assisted in duties by Deputy Floor Wardens. Each Floor Warden and Deputy Floor Warden are familiar with the Fire Safety Plan, the location of exits and the location and operation of any available fire alarm system.

1. Ensures that an alarm has been transmitted.
2. Ensures that all occupants are notified of the fire and that they proceed immediately to execute the Fire Safety Plan.

TENANT FLOOR WARDEN-Continued

3. In the event of fire, or fire alarm, ascertains location of the fire, and coordinates the evacuation of the floor in accordance with directions received and the following guidelines:

   - o The most critical evacuations must occur on the fire floor and the floor directly above.
   - o Evacuation from the other floors shall be instituted when instructions from the Fire Command Station (Operations Control Center) or conditions indicate such action.
   - o Evacuation should be via uncontaminated stairs being sure to avoid stairs being used by the Fire Department. If this is not possible, the Fire Department personnel should be made aware before a door to the fire floor is opened.
   - o Evacuation to two or more levels below the fire door is generally adequate.

   - o In the event that stairways serving the floor and/or floors above are usable due to contamination or cut off by fire and/or smoke, or that several floors above fire involving large numbers of occupants must be evacuated, consideration may be given to using elevators in accordance with the following:

     - If the elevator servicing a floor also services the fire floor, it should not be used. However, elevators may be used if there is more than one bank of elevators, and the Warden is informed from the Fire Command Station that one bank is unaffected by the fire.
     - If elevators do not service the fire floor and their shafts have no openings on the fire floor, they may be used, unless otherwise directed.
     - Elevators operated by trained building personnel or firemen may also be used.
     - In the absence of a serviceable elevator the Floor Warden shall select the safest stairway to use for evacuation on the basis of the location of the fire and any information received from the Fire Command Station. The Floor Warden shall check the environment in the stair prior to entry for evacuation. If it is affected by smoke, an alternate stair shall be selected, and the Fire Command Station notified.

3. Ensures that the Fire Command Station (Operations Control Center) is informed of the means being employed for evacuation by the occupants of the floor.
4. Floor Wardens on floor above the fire shall, after executing the Fire Safety Plan, notify the Fire Command Station of the means of egress being used for evacuation and any other particulars.
5. Informs Fire Command Station (Operations Control Center) of the location of evacuees.

7-3 PATH FIRE EMERGENCY RESPONSE

7-3.1 POLICE UNIT

Note: The WTC Police Unit responds to all PATH fire alarms.

WTC Police Desk Officer

1. Notifies the NYC Fire Department, Coordinator of Fire & Environmental Safety, Mechanical Contract Supervisor and Chief Maintenance Supervisor (Mechanical).
2. Advises the PATH Police of the alarm and location if known.

7-3.2 OPERATIONS DIVISION

"7-7" Supervisor

1. Upon receipt of an alarm or report of a fire or smoke condition in the PATH area, immediately notifies the WTC Police Desk Officer.
2. Advises the PATH Train Master of all alarms.

7-3.3 PLANT & STRUCTURES DIVISION

COORDINATOR OF FIRE & ENVIRONMENTAL SAFETY OFFICE

1. Upon arrival at the Operations Control Center, confirms that the Mechanical Contractor Supervisor has responded to the HVAC fan control room and has made contact with the PATH Power Director via the direct telephone line.
2. Makes contacts with the appropriate "7-4" Supervisor as to the need for opening the World Trade Center emergency exit doors at the north end of the PATH mezzanine.

MECHANICAL SECTION

Mechanical Contractor Supervisor

1. Responds to the HVAC Fan Control Room and makes contact with the PATH Power Director utilizing the direct telephone line.
2. Directs contract personnel to sequence fans in conjunction with guidance from the Train Master.

7-3.4 PATH

Power Director's Office

1. Instructs the WTC Mechanical Contractor Supervisor to activate a specific ventilation mode based on the fire location zone indicated on Exhibit 7B, the HVAC System Chart. The fire location zone is the area identified by the PATH Train Master based on the notification of a fire and/or smoke condition.
2. Notifies PATH personnel and coordinates system power appropriately as directed by the PATH Train Master.
3. Dispatches electrical personnel to reset the fans in Substation #3 upon completion of the incident.

Train Master

1. Notifies PATH personnel of fire and/or smoke condition.
2. Guides the WTC Mechanical Contractor Supervisor in sequencing fans.
3. Informs the PATH Power Director of the specific fire location zone based on the notification of the fire and/or smoke condition.
4. In the event of a major incident, designates a PATH employee as the on-scene coordinator. This employee will be responsible for establishing a Communications Command Post to coordinate the response and to provide an open channel of communications between the NYC Fire Department, Emergency Medical Service, WTC Police, WTC Operations personnel, PATH Police, and the Train Master.
5. Advises the WTC Operations Control Center of alternate service strategies, if applicable.

EXHIBIT 7A
NOTIFICATIONS

ALL RADIO TRANSMISSIONS ARE TO REFER A "FIRE CONDITION" AS A "Possible 8-8" OR "Actual 8-8," as appropriate.

Refer to the APPENDIX A for names and numbers.

Individuals or their alternates must be contacted at home if the incident occurs during off-hours.

FROM	PRIORITY	TO
WTC Police Desk Officer	1st Priority (radio)	NYC Fire Department (by Hotline)
		Tour Commander
		"7-3" Supervisor
		"7-7" Supervisor
		Coord. of Fire & Env. Safety (reg hrs only)
		Police Commanding Officer(reg hrs only)
	2nd Priority (radio or phone)	Police Lieutenant (reg hrs only)
		Central Police Desk
"7-7" Supervisor	1st Priority	WTC Police Desk
	2nd Priority	Coord. of Fire & Env. Safety (reg hrs only)
		Mechanical Contr. Supv.
		Electrical Contr. Supv.
	3rd Priority*	Chief Mtnc Supv (Mechanical)
		Chief Mtnc Supv (Electrical)
		Coord. of Fire & Env. Safety
		Mgr, Operations
		Mgr, Plant & Structures
		General Mgr, Tenant Support & Project Management
		Mgr, Tenant Support Division
		General Mgr, Physical Facilities
Coordinator of Fire & Environmental Safety	1st Priority	Public Affairs (reg hrs only)
		Risk Management (reg hrs only)
		Engineering Audit Div. (reg hrs only)
		General Mgr, Physical Facilities (off hrs)

* For notifications purposes only, fires with the following conditions are considered 3rd priority:

- o sprinkler head water release
- o use of hose line to extinguish fire
- o electrical switchgear fire
- o smoke purge utilized
- o suspected arson

EMERGENCY H.V.A.C. CHART

	PATH MEZZ A.C. SYSTEM			PATH OFFICES A.C. SYSTEM			PATH PLAT-FORM	PATH S. END TRACK	PATH EXHAUST FANS				PROJ FAN	
									SUBSTATION 3			SOUTH	N. STR.	S. STR
FIRE LOCATION	ACS-S5-S6	ACR-S5-S6	100% FRESH AIR	ACS-S5-S7	ACR-S5-S7	100% FRESH AIR	VS-S5-S11	VS-S5-S4	TRACK SIDE DAMPER	E-S5-16	E-S5-17	E-S5-18	E-S3-S2	E-S2-S6
WEST STREET	STOP	STOP		STOP	STOP		STOP	STOP	CLOSED			STOP		
PLATFORM			START			START	STOP	STOP	OPEN	START	START	START		
TRACK NORTH OF TERMINAL			START			START	START	START	OPEN	START	START	STOP		
TRACK SOUTH OF TERMINAL			START			START	STOP	START	OPEN	START	START	START		
MEZZANINE OR COMMUTERS CAFE	STOP	STOP				START	START	START	CLOSED			STOP		
MEZZANINE OFFICE OR COFFEE SHOP/ TRADE INN			START	STOP	STOP		START	START	CLOSED			STOP		
UNKNOWN			START			START	START	STOP	CLOSED			STOP		
FAN LABEL (on Sub 3 panel)	A	B	C	D	E	F	G	H	I	1	J	K	L	M
SEQUENCE TO ESTABLISH NORMAL FAN OPERATION	3 START	2 START	1 STOP	6 START	5 START	4 STOP	7 START	8 START	9 CLOSED	10 STOP	11 START	12 STOP	13 STOP	14 STOP

Notes:

- Disregard blank spaces.
- Normally either Fan I or J is running and should be left that way.
- Authorized instructions supersede these modes.

EXHIBIT 7C
FIRE RESPONSE CARTS

LOCATION	PURPOSE
WTC #1 & 2	
Lobby Level Emergency Rm. adjacent Freight elevator 48 car	For use on fires in Zone 1
44th Floor Skylobby Emergency Room - at main corridor intersection	For use on fires in Zone 2
78th floor Skylobby at main corridor intersection	For use on fires in Zone 3
WTC #4	
Lobby Level adjacent to freight elevators FE3 - FE4	For use on fires in WTC #4 and Concourse stores
WTC #5	
Lobby Level Emergency Room West wall adjacent to elevator lobby	For use on fires in WTC #5
Subgrade	
Emergency Supply Room East/West corridor B-1 Level near Police Desk	For use on subgrade fires in WTC #1 & 2, parking garages and truck dock
Subgrade & Outdoors	
Response Vehicle truck dock vehicle near Police Desk	For use on subgrade fires and outdoor fires throughout facility